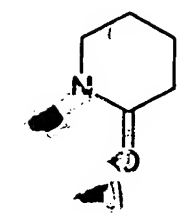
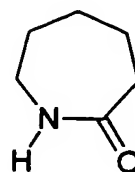


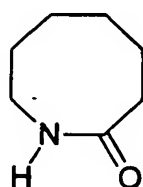
Endocyclic amides



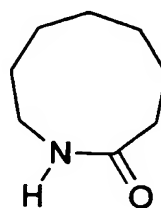
δ -Valerolactam



ϵ -Caprolactam

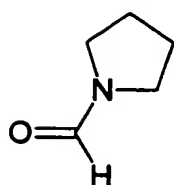


2-Azacyclooctanone

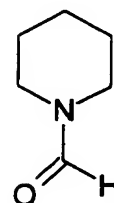


2-Azacyclononanone

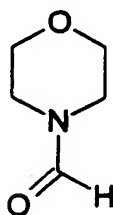
Exocyclic amides



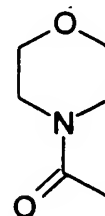
N-formyl pyrrolidine



N-formyl piperidine



N-formyl morpholine

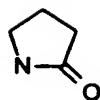


N-acetyl morpholine

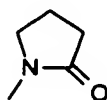
FIG. 1

205270 27695007 10056917 012502

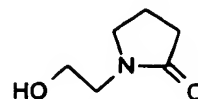
Pyrrolidones



2-pyrrolidone

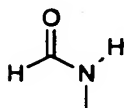


N-methylpyrrolidone (NMP)

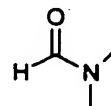


N-hydroxyethylpyrrolidone (HEP)

Formamides

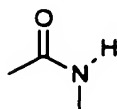


N-methylformamide (MMF)

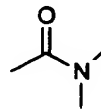


N,N-dimethylformamide (DMF)

Acetamides

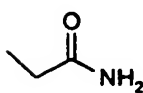


N-methylacetamide (MMA)

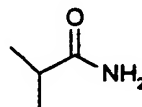


N,N-dimethylacetamide (DMA)

Higher-chain primary amides



propionamide

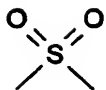


isobutyramide

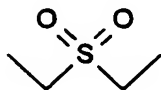
FIG. 2

205220" 2T69500T

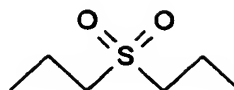
n-Alkyl sulfones



Methyl sulfone



Ethyl sulfone

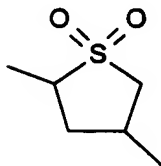


n-Propyl sulfone

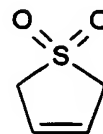
Cyclic sulfones



Tetramethylene sulfone
(Sulfolane)



2,4-Dimethylsulfolane



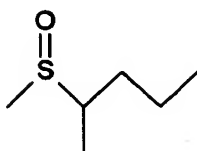
Butadiene sulfone
(Sulfolene)

FIG. 3

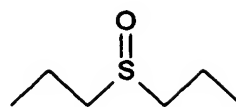
10056917 012502



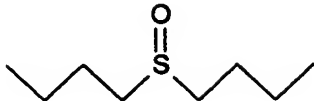
Methyl sulfoxide



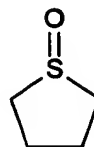
Methyl *sec*-butyl sulfoxide



n-Propyl sulfoxide



n-Butyl sulfoxide



Tetramethylene sulfoxide

FIG. 4

10056917-012602